APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Cathode Polarization in the Deposition of Magnesium From Fused Carnallite, by B. Markov, I. Shcherbakov, V. Kalitova, 27 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII, No 10, 1939, pp 1472-1482.

OTS TT-64-14148
Sci Tr Center
RT-2183

Scientific - Chemistry
CTS 70/Jul 55

25, 226

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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Volkenstein, M. V. and Shorygin, P. P.
ANALYSIS OF GASOLINE BY THE RAMAN EFFECT, II. [1963] [18]p. 12 refs.
Order from OTS or SLA $1.60 63-16025

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939, v. 13, p. 1512-1522.

DESCRIPTORS: *Gasoline, Chemical analysis, *Raman spectroscopy.

(Materials--Fuels, TT, v. 10, no. 7)

63-16025

I. Volkenstein, M. V.
II. Shorygin, P. P.

Office of Technical Services

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Current Yield of Magnesium as Function of Magnesium Chloride Content of Melt in Electrolysis of Molten Carnallite, by B. Markov, V. Kalitova, 8 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939, pp 1559-1562.

OTS TT-64-14146

Sci Tr Cmtee RT-2184

SLA R-2936

Scientific - Chemistry Apr 55 CTS

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Berestneva, Z. Ya, and Kargin, V. A.
ADSORPTION OF ELECTROLYTES ON HIGHLY PURIFIED ALUMINA AND FERRIC OXIDE GELS.
[1961] 7p. 5 refs.
Order from OTS or SLA $1.10 61-18056

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939, v. 13, p. 1625-1634.

DESCRIPTORS: *Electrolytes, Adsorption, Determination, *Gels, Iron compounds, Oxides, Aluminum compounds.

(Unannounced)

61-18056

I. Berestneva, Z. Ya.
II. Kargin, V. A.

184041

Office of Technical Services

The Relationship Between the Surface Energy of Liquids and the Accommodation Coefficients, by N. Hartmanov, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939, pp 1634-1641. 9607255

NAL 5828.4F

DDC RSIC-52
OTS TT-63-24114

Nucl - Nuclear Sci & Technology
Oct 63

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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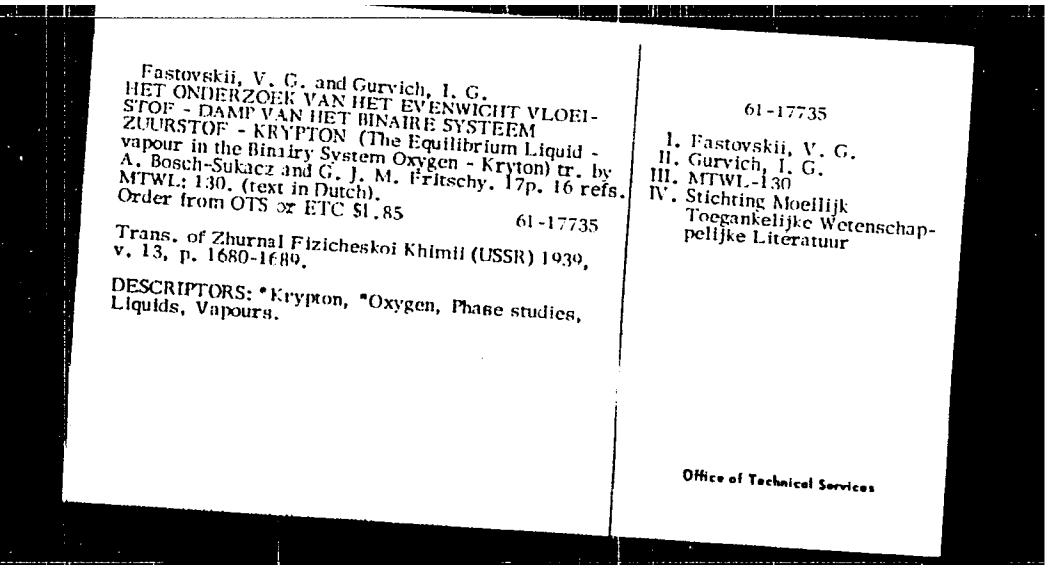

Fastovskii, V. G. and Gurvich, I. G.
HET ONDERZOEK VAN HET EVENWICHT VLOEI-STOF - DAMP VAN HET BINAIRE SYSTEEM ZUURSTOF - KRYPTON (The Equilibrium Liquid - vapour in the Binary System Oxygen - Kryton) tr. by A. Bosch-Sukacz and G. J. M. Fritschy. 17p. 16 refs. MTWL: 130. (text in Dutch).
Order from OTS or ETC $1.85 61-17735

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939, v. 13, p. 1680-1689.

DESCRIPTORS: *Krypton, *Oxygen, Phase studies, Liquids, Vapours.

61-17735

I. Fastovskii, V. G.
II. Gurvich, I. G.
III. MTWL-130
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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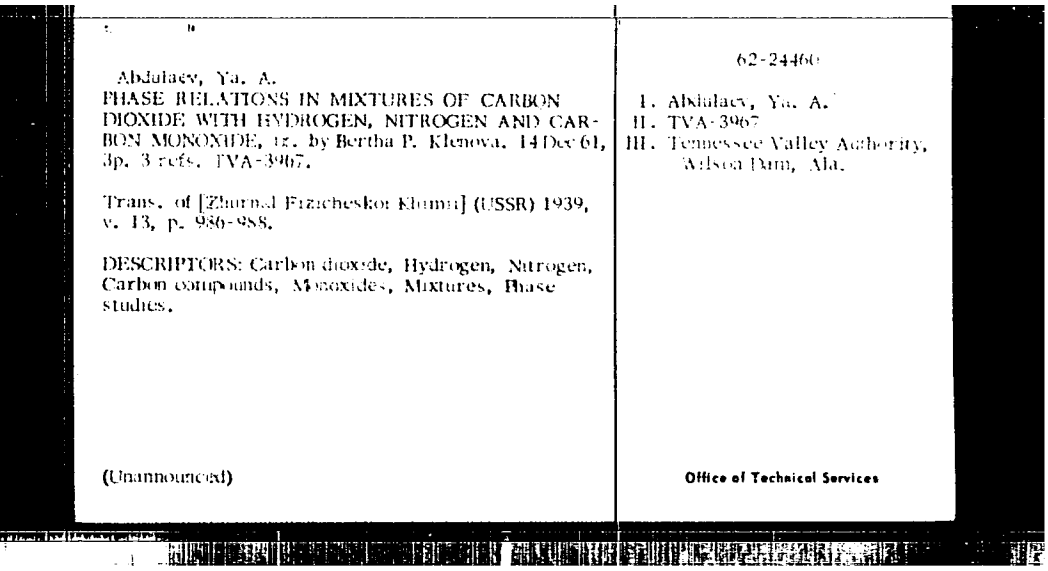

Abdulaev, Ya. A.
PHASE RELATIONS IN MIXTURES OF CARBON DIOXIDE WITH HYDROGEN, NITROGEN AND CARBON MONOXIDE, tr. by Bertha P. Klenova. 14 Dec 61, 3p. 3 refs. TVA-3967.

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939, v. 13, p. 986-988.

DESCRIPTORS: Carbon dioxide, Hydrogen, Nitrogen, Carbon compounds, Monoxides, Mixtures, Phase studies.

(Unannounced)

62-24460

I. Abdulaev, Ya. A.
II. TVA-3967
III. Tennessee Valley Authority, Wilson Dam, Ala.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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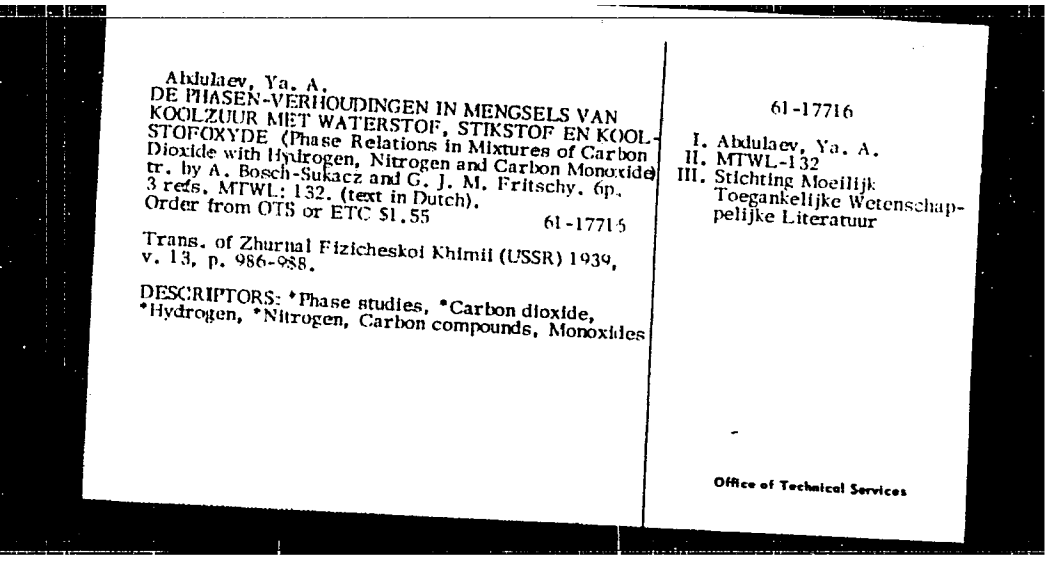

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Order from OTS or ETC $1.55 61-17715

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939, v. 13, p. 986-988.

DESCRIPTORS: *Phase studies, *Carbon dioxide, *Hydrogen, *Nitrogen, Carbon compounds, Monoxides

61-17716

I. Abdulaev, Ya. A.
II. MTWL-132
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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On the Overvoltage of Hydrogen in .ne Fused Electrolyte, by S. Karpachev, S. Rempel, E. Yerdan, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939, 1087-1091.

26,708 Sci Trans Center RT-2403

Scientific - Chemistry Sep 55 CTS/DEX

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Overvoltage on Mercury in Presence of Surface-Active Electrolytes, by Z. Iofa, B. Kabanov, E. Kuchinskiy, F. Chistyakov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 1105-1116.

AEC Tr 1859

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Electroosmotic Investigation of the Surface Layers
on Glass, by V. S. Molchanov, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 8, 1939,
pp 1124-1130.

Sci Tr Center RT-1208

Scientific - Chemistry

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(NY-4830)

Spectroscopic Investigation of the Carbon Disulfide Flame. I., by V. Kondrat'yev, 29 pp.

RUSSIAN, pwr, Zhur Fiz Khim, Vol XIII, No 9, 1939, pp 1260-1270.

JPRS 7500

Sci - Chem

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Electrical Conductivity and Specific Gravity of the System of Fused Salts $Na_4P_2O_7$-NaCl, by S. I. Sklyarenko, I. E. Krauze, 22 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XIII, No 9, 1939, pp 1315-1321.

STS-64-

Sci Tr Center
RT-2182

Scientific - Chemistry
CTS 70/Jul 55

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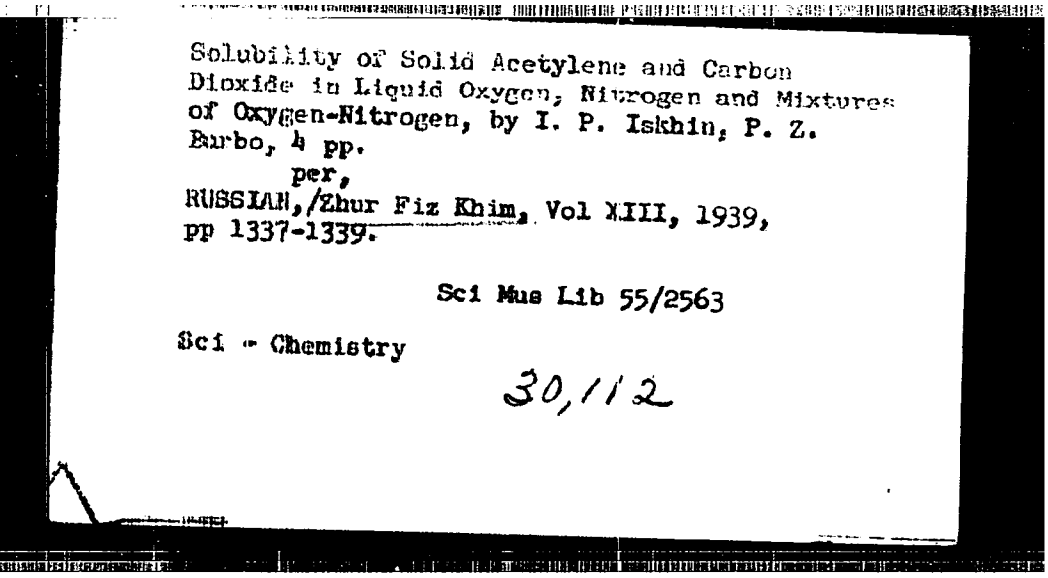

Solubility of Solid Acetylene and Carbon Dioxide in Liquid Oxygen, Nitrogen and Mixtures of Oxygen-Nitrogen, by I. P. Iskhin, P. Z. Burbo, 4 pp.
per,
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Sci Mus Lib 55/2563

Sci - Chemistry

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The Diffusion Theory of Photographic Development, by D. A. Frank-Kamenetskii.
RUSSIAN, per. Zh. Fiz. Khim, Vol 13, No 10, 1939, pp 1403-1410.
NLL 5828.4F (11853)

Sci - Chem
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Sept. 67

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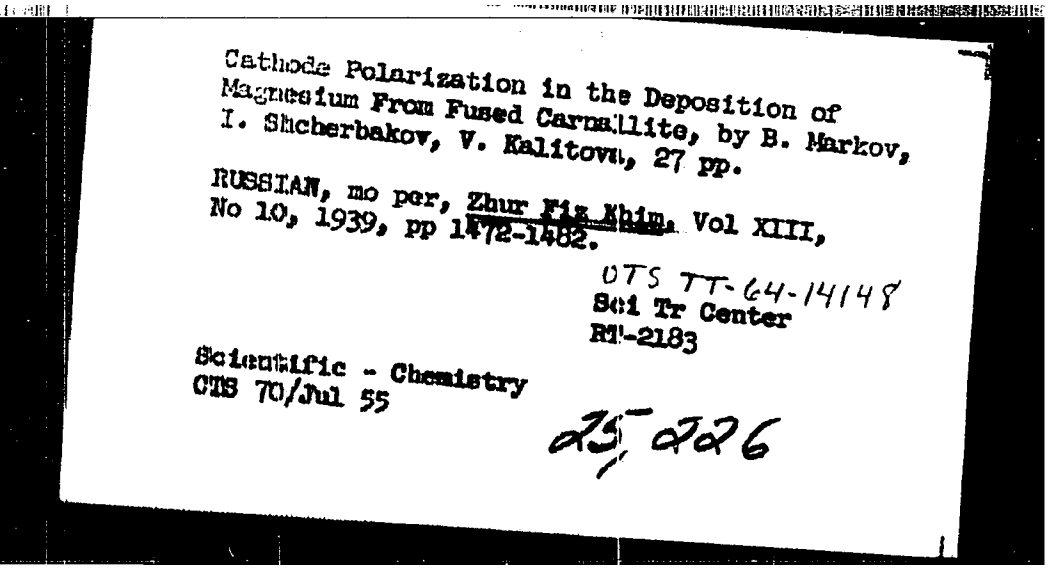

Cathode Polarization in the Deposition of Magnesium From Fused Carnallite, by B. Markov, I. Shcherbakov, V. Kalitova, 27 pp.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XIII, No 10, 1939, pp 1472-1482.

OTS TT-64-14148
Sci Tr Center
RI-2183

Scientific - Chemistry
CTS 70/Jul 55

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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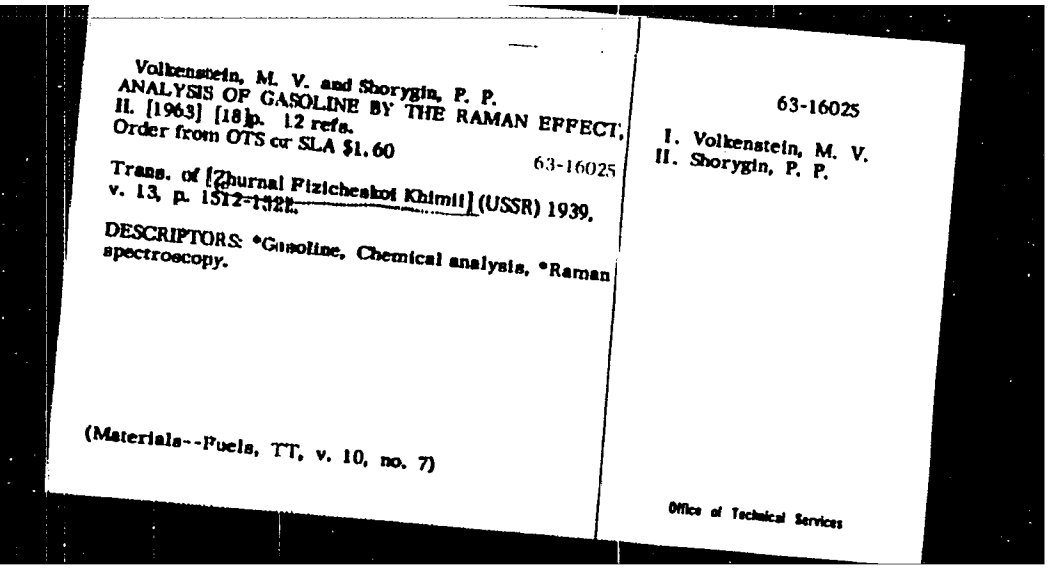

Volkenstein, M. V. and Shorygin, P. P.
ANALYSIS OF GASOLINE BY THE RAMAN EFFECT.
II. [1963] [18]p. 12 refs.
Order from OTS or SLA $1.60 63-16025

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939, v. 13, p. 1512-1521.

DESCRIPTORS: *Gasoline, Chemical analysis, *Raman spectroscopy.

(Materials--Fuels, TT, v. 10, no. 7)

63-16025

I. Volkenstein, M. V.
II. Shorygin, P. P.

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RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939, pp 1559-1562.

OTS TT-64-14146

Sci Tr Center RT-2184

SLA R-2936

Scientific - Chemistry Apr 55 CTS

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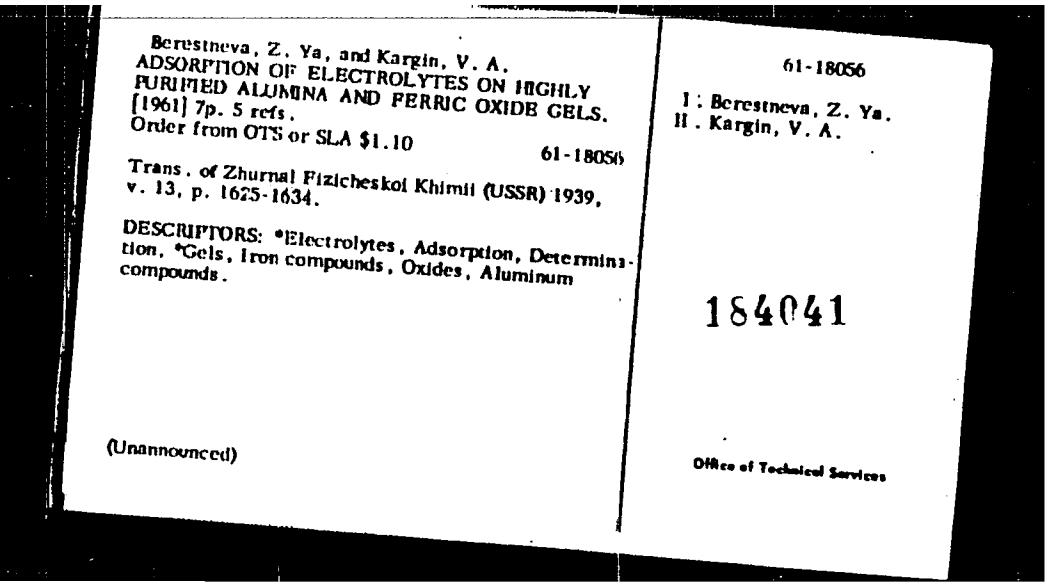

Berestneva, Z. Ya, and Kargin, V. A.
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[1961] 7p. 5 refs.
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Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939, v. 13, p. 1625-1634.

DESCRIPTORS: *Electrolytes, Adsorption, Determination, *Gels, Iron compounds, Oxides, Aluminum compounds.

(Unannounced)

61-18056

I. Berestneva, Z. Ya.
II. Kargin, V. A.

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The Relationship Between the Surface Energy of Liquids and the Accommodation Coefficients, by M. Ivanaev, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 11, 1939, pp 1639-1641. 9687265

NLL 5828.4F

DDC RSIC-52

OTS IT-63-24114

Sci - Nuclear Sci & Technology
Oct 63

NLL Ref: 313.4 1962 (4922) (Rev.)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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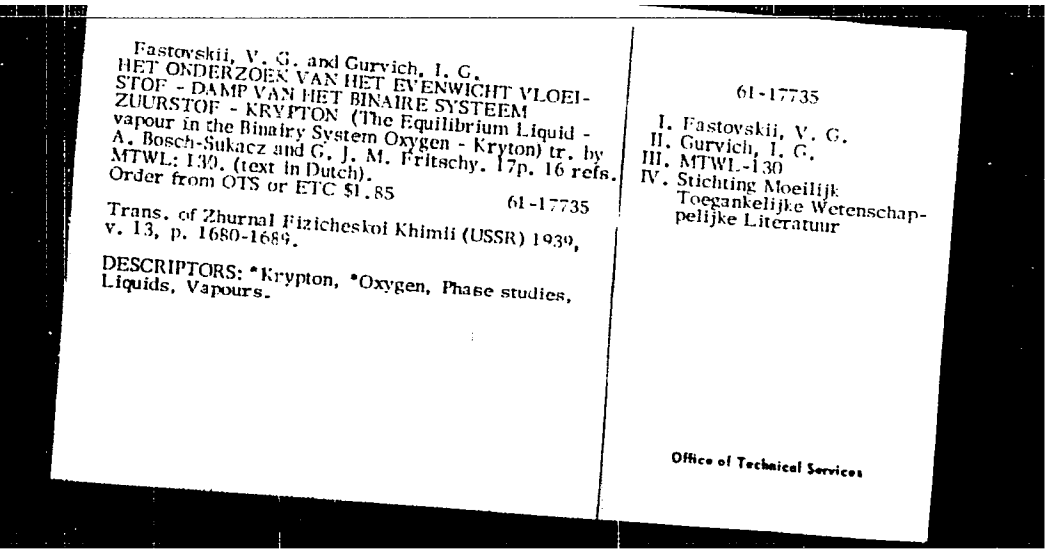

Fastovskii, V. G. and Gurvich, I. G.
HET ONDERZOEK VAN HET EVENWICHT VLOEISTOF - DAMP VAN HET BINAIRE SYSTEEM ZUURSTOF - KRYPTON (The Equilibrium Liquid - vapour in the Binairy System Oxygen - Kryton) tr. by A. Bosch-Sukacz and G. J. M. Fritschy. 17p. 16 refs. MTWL: 130. (text in Dutch).
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Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1939, v. 13, p. 1680-1689.

DESCRIPTORS: *Krypton, *Oxygen, Phase studies, Liquids, Vapours.

61-17735

I. Fastovskii, V. G.
II. Gurvich, I. G.
III. MTWL-130
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Ammonia Content of Hydrogen and Nitrogen Under Pressure in Equilibrium With Liquid Ammonia, by I. R. Krichevskiy, N. E. Khazanova. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 1690-1693.

Sci Mus Lib 58/0333

Sci - Chem
Sep 58

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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(MY-4830)

Propagation of Cold Flame in Fuel Mixtures Containing 0.03% Carbon Disulfide, by V. G. Voronkov, N. N. Semenov, 74 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 12, 1939, pp 1695-1727.

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JPRS 7502

Sci - Chem

Feb 61

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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The Determination of Vapor Pressure of $AlCl_3$-NaCl Melts at High Temperatures, by I. I. Maryshkin, 3 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIII, 1939, pp 690-692.

S.L.A. Tr 1267

Sci - Physics
Jan 57 CRB

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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Thermal Analysis of Systems $AlCl_3$-NaCl and $AlCl_3$-KCl, by U. I. Shvartsman, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp 253-256.

AEC Tr-4347

Sci - Phys
May 61

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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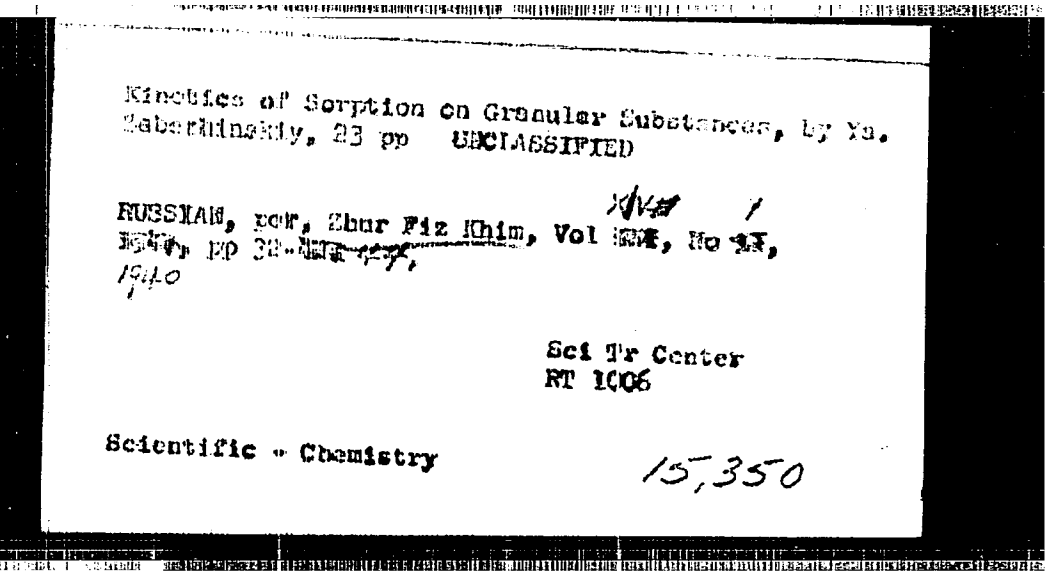

Kinetics of Sorption on Granular Substances, by Ya. Zeldovitch, 23 pp UNCLASSIFIED

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RT 1006

Scientific - Chemistry

15,350

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Formation of Nitrogen Oxides in Ultra-High Frequency Torch Discharge, by P. A. Serebryakov.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 2, 1940, pp 175-179.

CCT-1502B
CCT-1502 TM

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Solomin, N. V.
VISCOSITY OF SILICA. [1962] 9p. (tables refs. omitted) 27 refs.
Order from OTS or SLA $1.10 62-18318

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1940, v. 14 [no. 2] p. 235-243.

DESCRIPTORS: *Glass, Quartz, *Silicon compounds, Viscosity, Test equipment, *Viscosimeters, Dioxides.

(Materials--Ceramics, TT, v. 9, no. 5)

62-18318

I. Solomin, N. V.

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

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To the Question of the Electrolysis of Fused Carnallite. Dependence of the Current Output by Magnesium Chloride Content in the Melt, by B. Markov, I. Scherbakov, V. Kalitova, 8 pp.

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(NY-4844)

Distribution of the CS Radical in the Low-Temperature Flame Zone of Carbon Bisulfide, by V. Kondrat'ev, 7 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 3, 1940, pp 287-290.

JPRS 7533

Sci - Chem

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The Influence of Water Vapor on the Rate of Reduction of Magnetite and Hematite by Carbon Monoxide, by Ye. P. Tatiyevskaya, 10 pp.

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SIA 59-15408

Sci
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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Solubility of Carbon Dioxide From its Mixtures With Hydrogen and Nitrogen in Water Under Pressure. by S. D. Zmyalishvili, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, 1940, pp 413-417.

SLA/R-2446

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Zhur Fiz Khim Vol 14, page 418-21 (1940)

Solubility of Ethylene and Propylene in Liquid N_2 and Liquid O_2

by N. M. Tsin.

OTS61-17736

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Zh Fiz Khim Vol 14, page 422-6 (1940)

Solubility of Acetylene and CO_2 in Liquid N_2 and Liquid O_2

by M. F. Fedorova

AEC Trans (avail. Brookhaven)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910034-8

Solubility of Gases in Liquids at Low Temperatures and High Pressures. III. Solubility of Hydrogen in Liquid Methane, by V. G. Fastovskiy, M. G. Gonikberg, 5 pp.

RUSSIAN, mp per, Zhur Fiz Khim, Vol XIV, No 3, 1940, pp 427-428.

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Scientific - Chemistry
Dec 55 CTS/DEX

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Vibration Spectra of Hydrocarbon Molecules, I. Methods for the Study of Valence Vibrations, by M. A. El'yashevich, 20 pp.

RUSSIAN, Per, Zhur Fiz Khim, Vol XIV, No 4, 1940, pp 461-473.

Sci Trans Center RT-405

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Vibration Spectra of Hydrocarbon Molecules. II. Frequencies of Valence Vibrations of the Carbon Chain of Molecules of the Paraffin Series, by B. I. Stepanov, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIV, No 4, 1940, pp 474-487.

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Sci Trans Center RT-409

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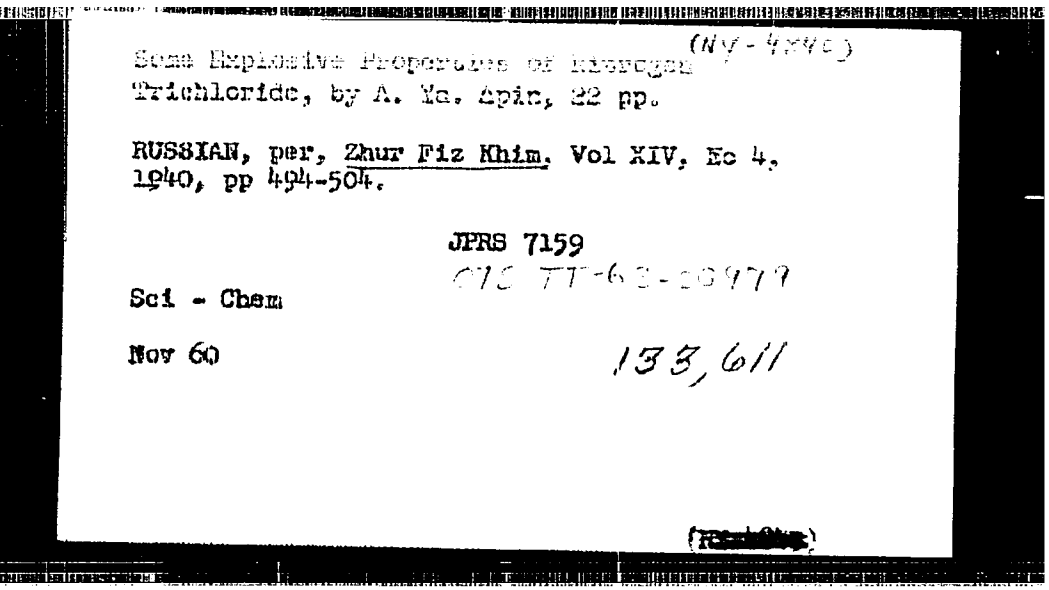

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Thermodynamic Constants of ~~Si~~ Silicon Tetrafluoride. The Hydrolysis ~~E~~ Equilibrium of Silicon Tetrafluoride, by I. G. Ryss, 15 p.

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SLA/R-2446

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JPRS 7530

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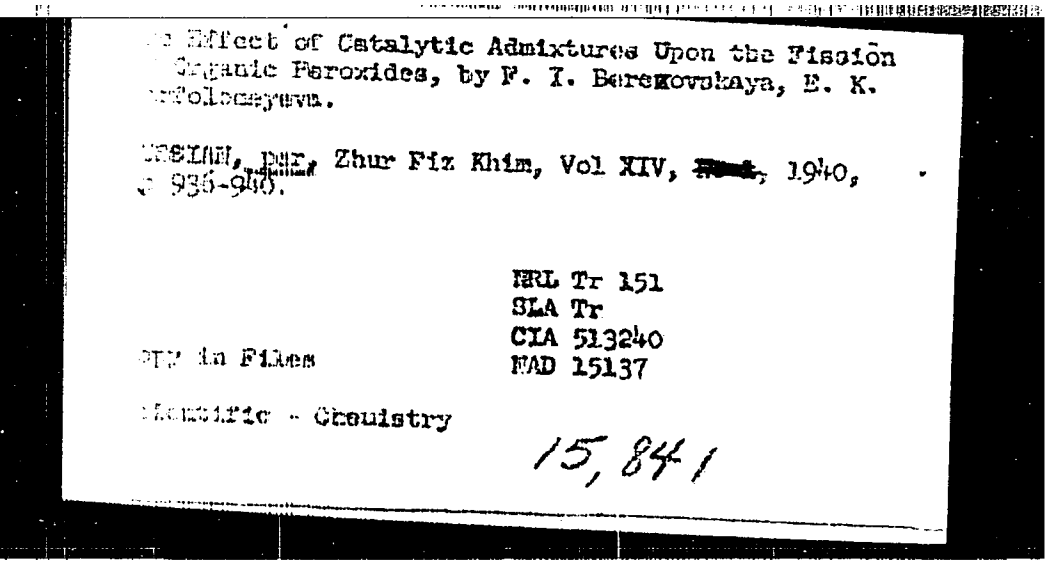

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NRL Tr 151
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Measurement of Small Vapor Pressures. III. Measurement of the Vapor Pressures of Halogen-Substituted Benzenes, by A. A. Ell'berman-Granovskaya, E. A. Shugam,

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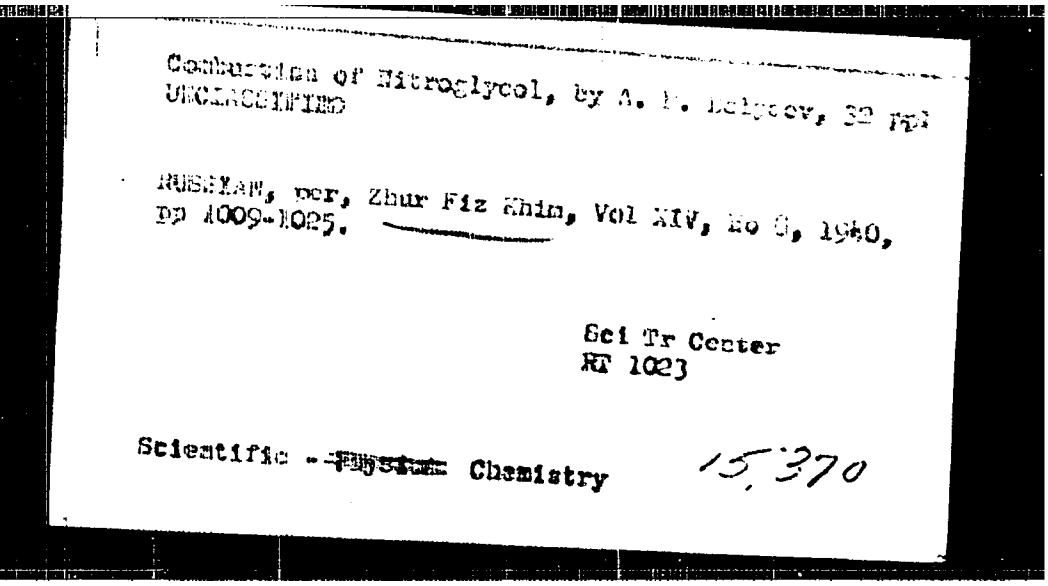

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Scientific - ~~Physical~~ Chemistry 15.370

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(NX-4810)

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JPRS 7160

Sci - Phys

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ATS RJ-1151

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KINETICS OF HETEROGENEOUS CATALYTIC PROCESSES. [1961] 7p.
Order from OTS or SLA $1.10 61-18110

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1940, v. 14, no. 9/10, p. 1153-1158.

DESCRIPTORS: *Catalysis, Analysis, *Reaction kinetics, Chemical reactions, *Adsorption.

The Langmuir theory of kinetics of chemical reactions is insufficient for explanations of all facts encountered in catalysis. A discussion of research at the Karpov Institute cites an expression for the adsorption isotherm and its experimental support for specified cases. (Author)

(Chemistry--Physical, TT, v. 6, no. 8)

61-18110

1. Title: Langmuir theory
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Kinetics of Ammonia Synthesis, by V. A. Roiter, 15 pp.

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JPRS 7527

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JPRS 7528

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SLA R-2962

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The Operation of Blowers in the Chemical Works of Konstantinovsk, by I. I. Zaring, 4 pp.

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X-Ray and Electronographic Investigation of the Products of Iron Corrosion, by N. A. Shishakov, P. S. Moiseev

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AEC Tr 1155

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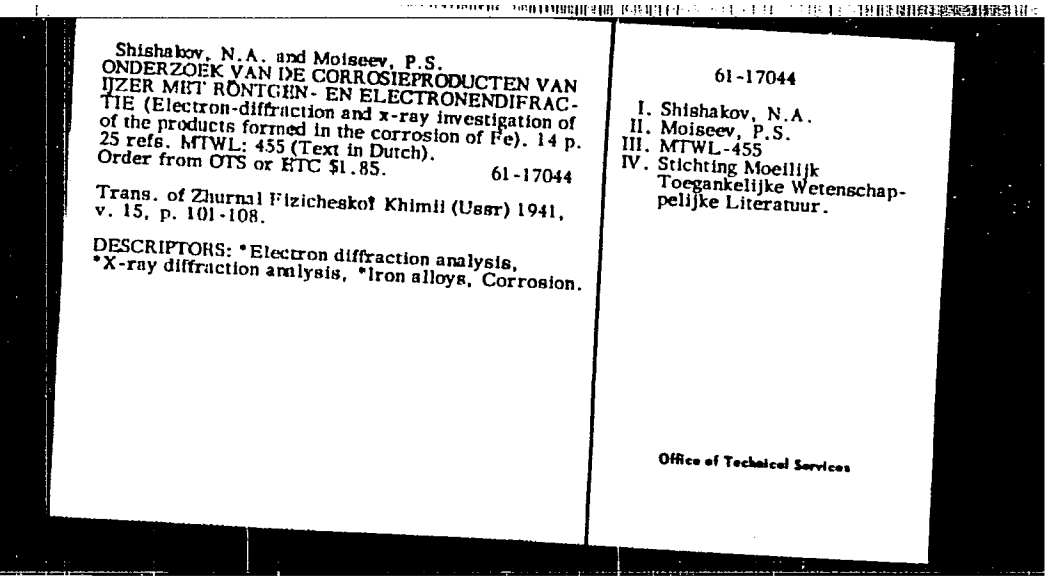

Shishakov, N.A. and Moiseev, P.S.
ONDERZOEK VAN DE CORROSIEPRODUCTEN VAN IJZER MET RÖNTGEN- EN ELECTRONENDIFRACTIE (Electron-diffraction and x-ray investigation of of the products formed in the corrosion of Fe). 14 p. 25 refs. MTWL: 455 (Text in Dutch).
Order from OTS or ETC $1.85. 61-17044

Trans. of Zhurnal Fizicheskof Khimii (Ussr) 1941, v. 15, p. 101-108.

DESCRIPTORS: *Electron diffraction analysis, *X-ray diffraction analysis, *Iron alloys, Corrosion.

61-17044

I. Shishakov, N.A.
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III. MTWL-455
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

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Mechanism of the Catalytic Oxidation of Ammonia, by F. M. Veinshtein, M. V. Polyakov, 10 pp

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SLA R-2951

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Heterogeneous Equilibria in the Ammonia-Nitrogen System at High Pressures, by I. R. Krichevskiy, P. E. Bolshakov, 10 pp.

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Compressibility of Gaseous Mixtures II. P-V-T Data for Binary and Ternary Mixtures of Methane, Nitrogen and Hydrogen (I), by I. R. Krichevskiy, G. T. Levchenko, 6 pp.

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SLA R-2948

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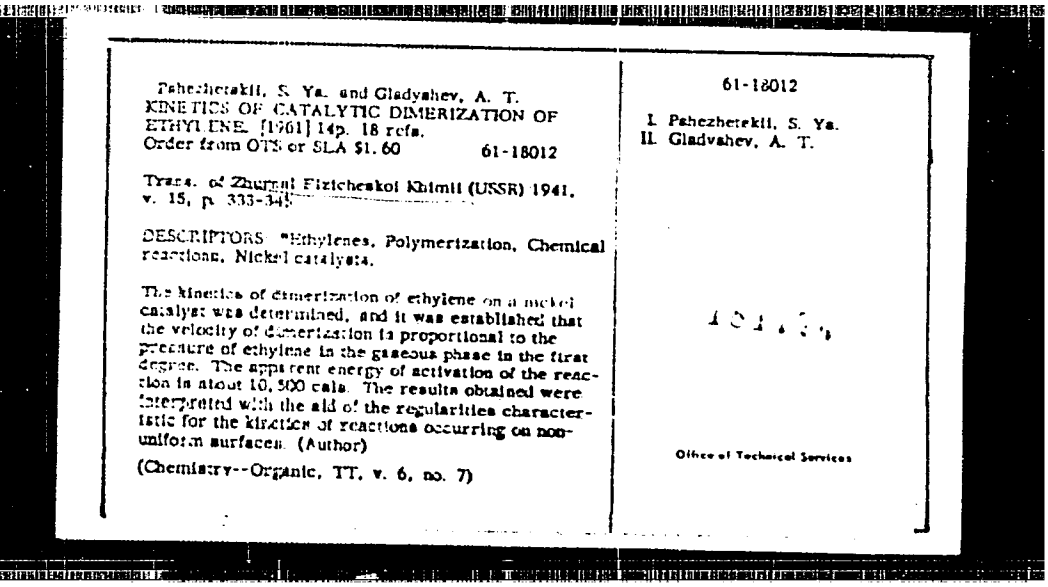

Pshezhetskii, S. Ya. and Gladyshev, A. T.
KINETICS OF CATALYTIC DIMERIZATION OF ETHYLENE. [1961] 14p. 18 refs.
Order from OTS or SLA $1.60 61-18012

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1941, v. 15, p. 333-345

DESCRIPTORS: *Ethylenes, Polymerization, Chemical reactions, Nickel catalysts.

The kinetics of dimerization of ethylene on a nickel catalyst was determined, and it was established that the velocity of dimerization is proportional to the pressure of ethylene in the gaseous phase in the first degree. The apparent energy of activation of the reaction is about 10,500 cals. The results obtained were interpreted with the aid of the regularities characteristic for the kinetics of reactions occurring on non-uniform surfaces. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18012

I. Pshezhetskii, S. Ya.
II. Gladyshev, A. T.

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Polyakov, M. V. and Kuleshina, L. P.
MECHANISM OF IGNITION OF GASEOUS MIXTURES. [1961] 5p.
Order from OTS or SLA $1.10 61-18009

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1941, v. 15, p. 470-4[illegible]

DESCRIPTORS: *Gases, Ignition, Nitrogen, Oxygen, Methanes.

The formula of Semenov connecting the lower limit of spontaneous ignition with the diameter of the reaction vessel for combustible mixtures diluted with inert gases is applicable to their ignition by a heated wire. The dependence of the lower limit upon the diameter and, consequently, the applicability of the Semenov formula is due to the induction period during which initial explosion centers accumulate up to a limit required for the explosion. The induction period and, consequently, the velocity of accumulation of the crit-
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61-18009

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[illegible]

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S-178/60 (NY-4829)

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JPRS 5736

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The absorption spectra of vapors of compounds formed by uranium and chlorine.
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Kravchenko, V. M.
THERMODYNAMIC CALCULATION OF QUATERNARY SYSTEMS: SYSTEM ORTHOXYLENE-METAXYLENE-PARAXYLENE-ETHYLBENZENE.
[1962] 8p. 2l. refs.
Order from OTS or SLA $1.10 62-14614

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1941, v. 15, p. 652-658

DESCRIPTORS: *Xylenes, *Benzenes, *Ethyl radicals, *Thermodynamics, Thermochemistry, Solubility, *Eutectics, Crystallization, Phase studies, Chemical equilibrium.

The method previously suggested for solving several equations for isobars of solubility to determine the coordinates of eutectic points in ternary systems was extended to quaternary systems and as an example a diagram of the quaternary system orthoxylene-metaxylene-paraxylene-ethylbenzene was calculated and (Chemistry--Physical, TT, v. 8, no. 6) (ovnr)

62-14614

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JPRS 5737

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